

Report No.:

Test Time: 2025-08-26 20:01

Luminaire Property

Luminaire Manufacturer:

Lamp Description: V13C F90 930

Luminous Width (mm): -63

Current: 0.120 A

Power Factor: 0.965

Luminous Length (mm): -63

Voltage: 228.1 V

Power: 26.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3087.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H40.4

Vertical Diffuse Angle(50%): V40.4

Luminaire Efficacy Rating (LER): 116.57

Max. Intensity: 6520.19 cd

S/MH(C0/C180): 0.67

Total Rated Lamp Lumens: 3087.8 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 6520.18 cd

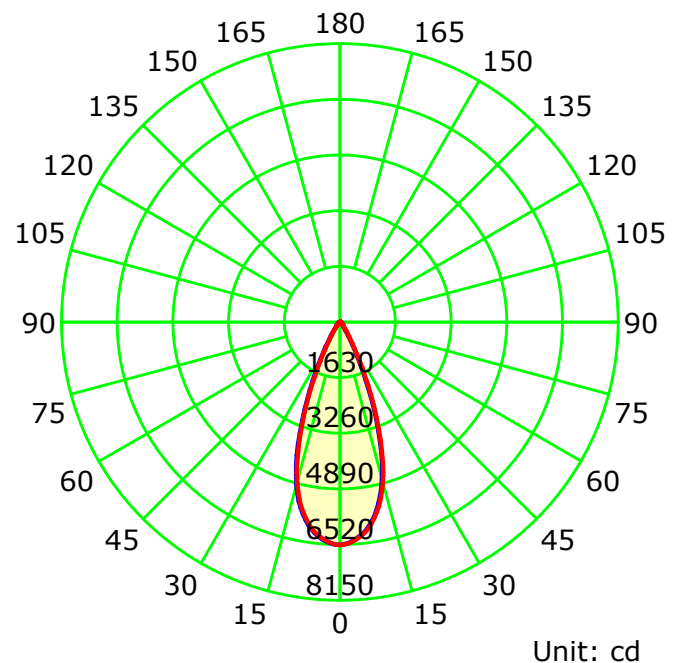
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.67

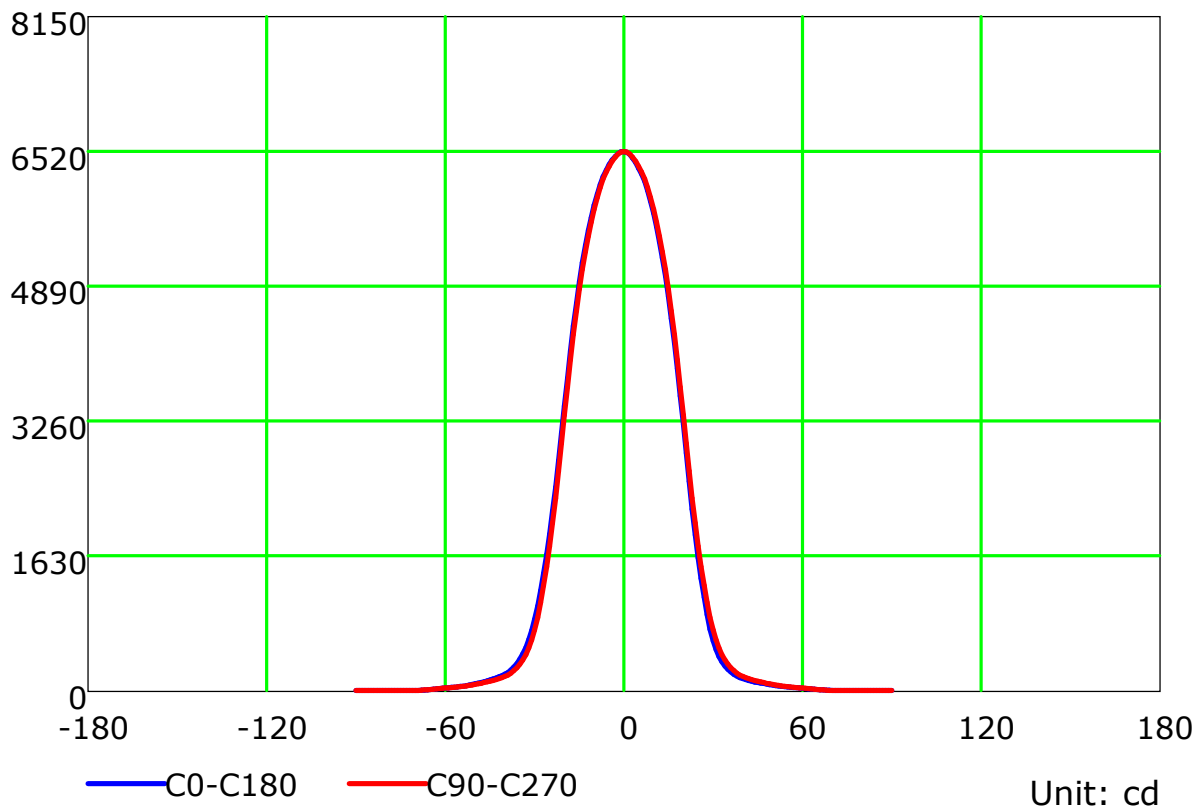
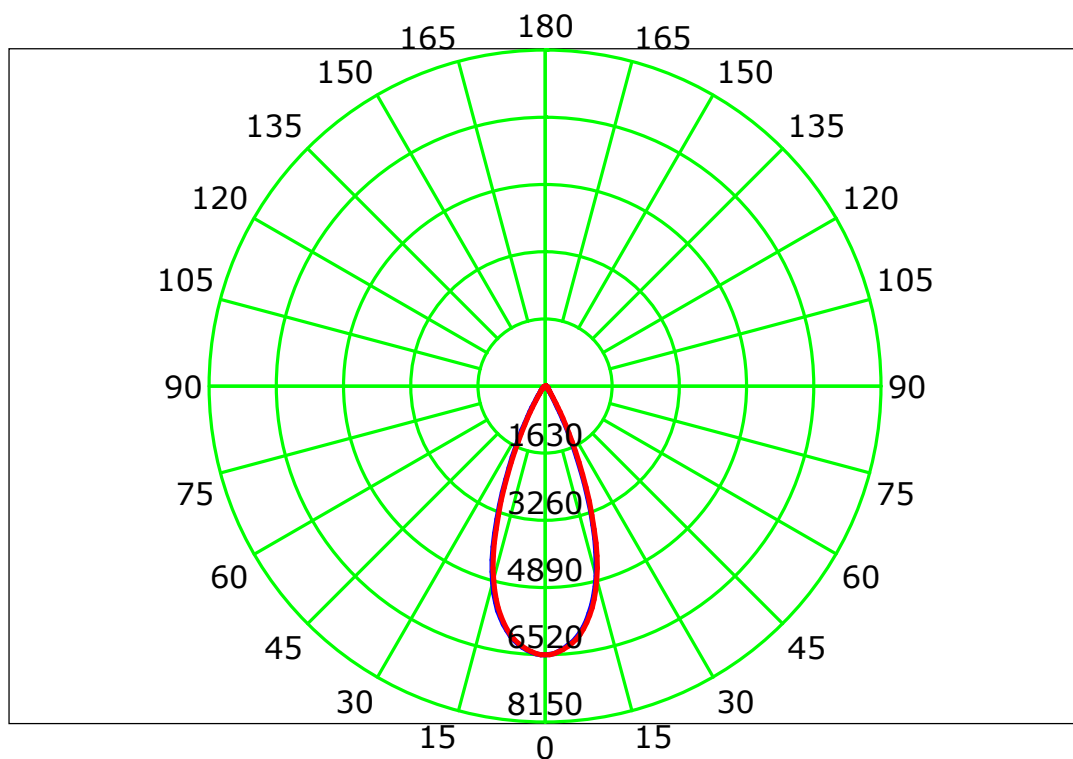
Picture Of Luminaire



Luminous Intensity Distribution Curve



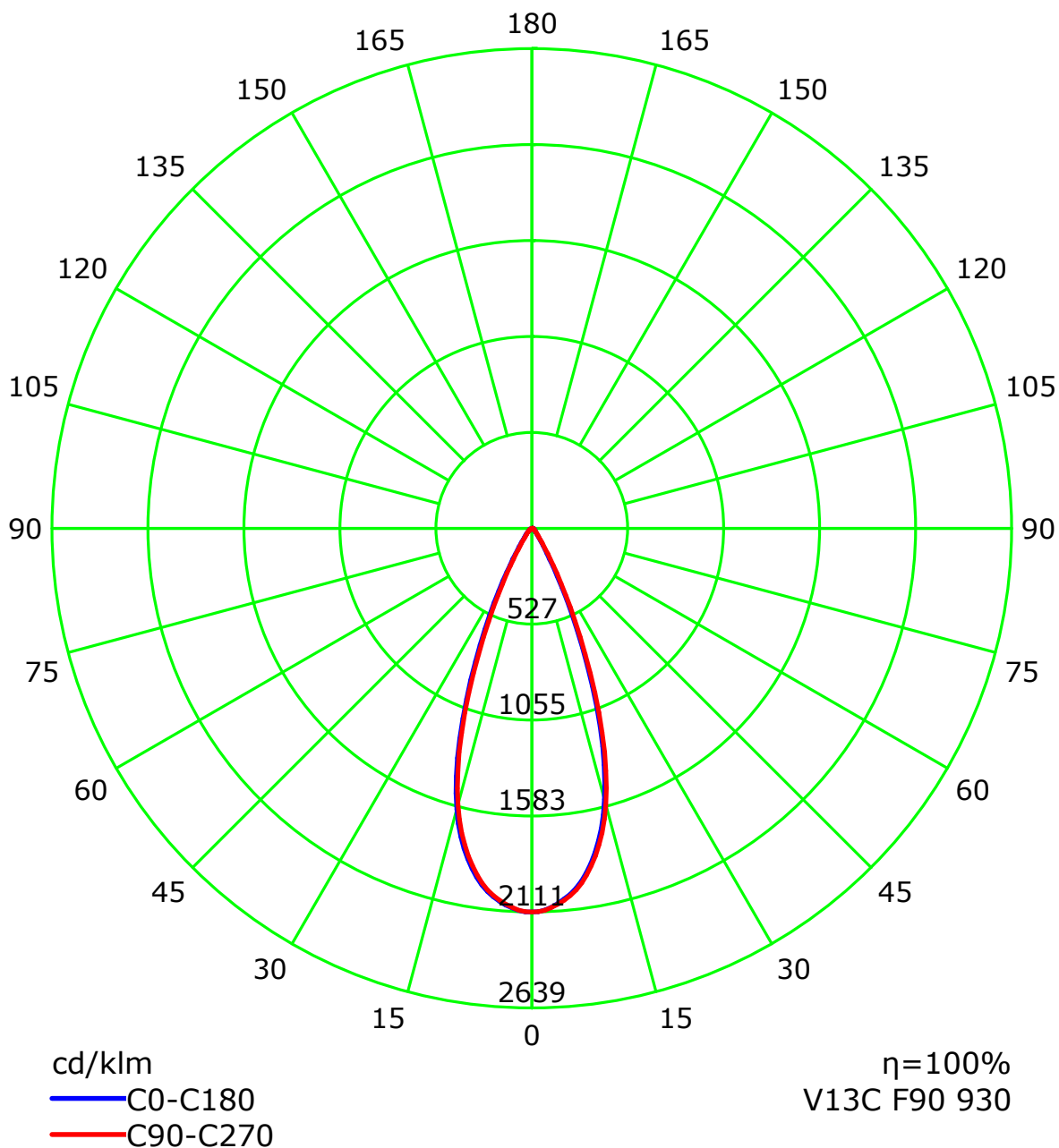
Luminous Intensity Distribution Curve



C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

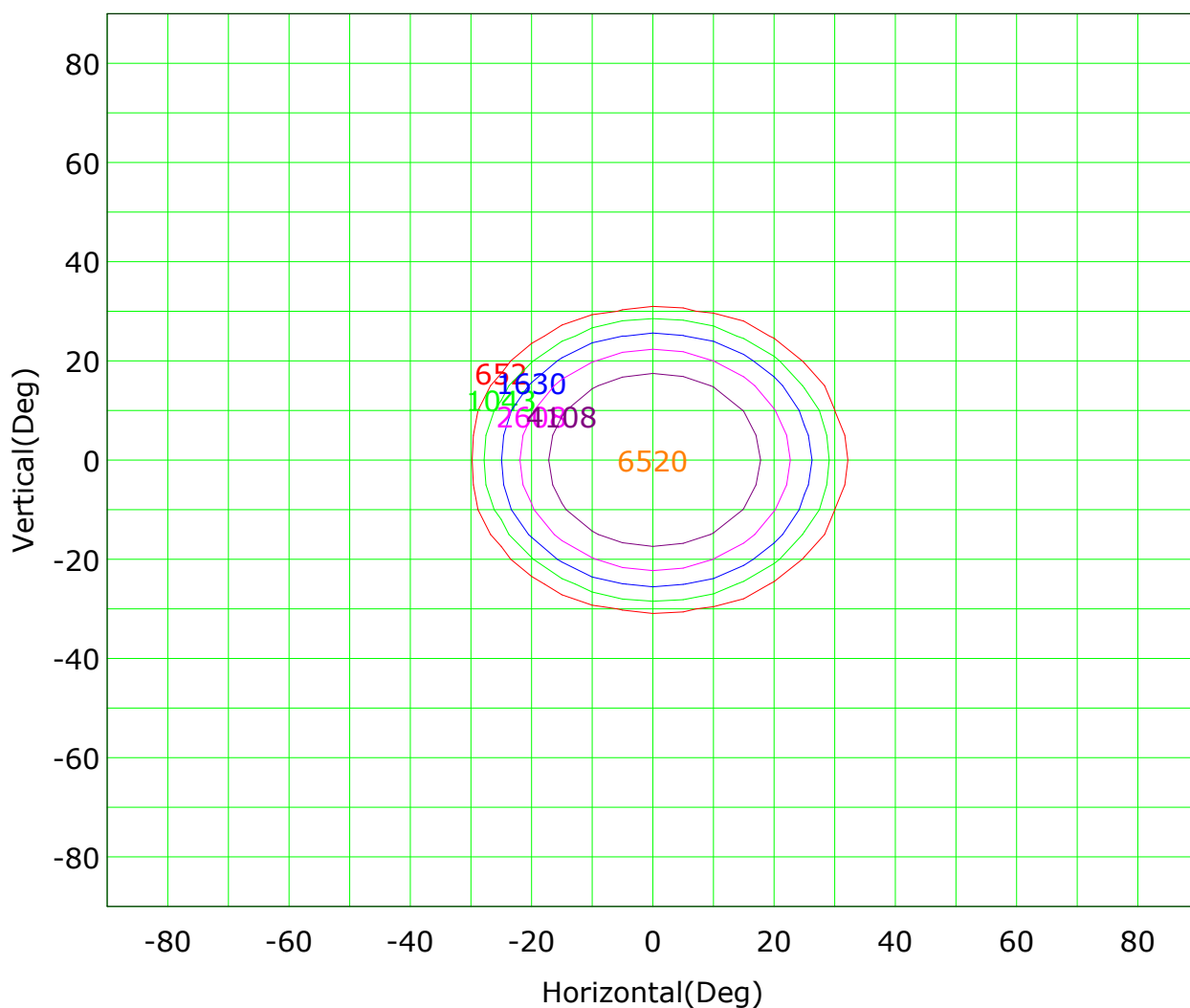
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 6520 cd

(10%): 652 cd	(16%): 1043 cd
(25%): 1630 cd	(40%): 2608 cd
(63%): 4108 cd	(100%): 6520 cd

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

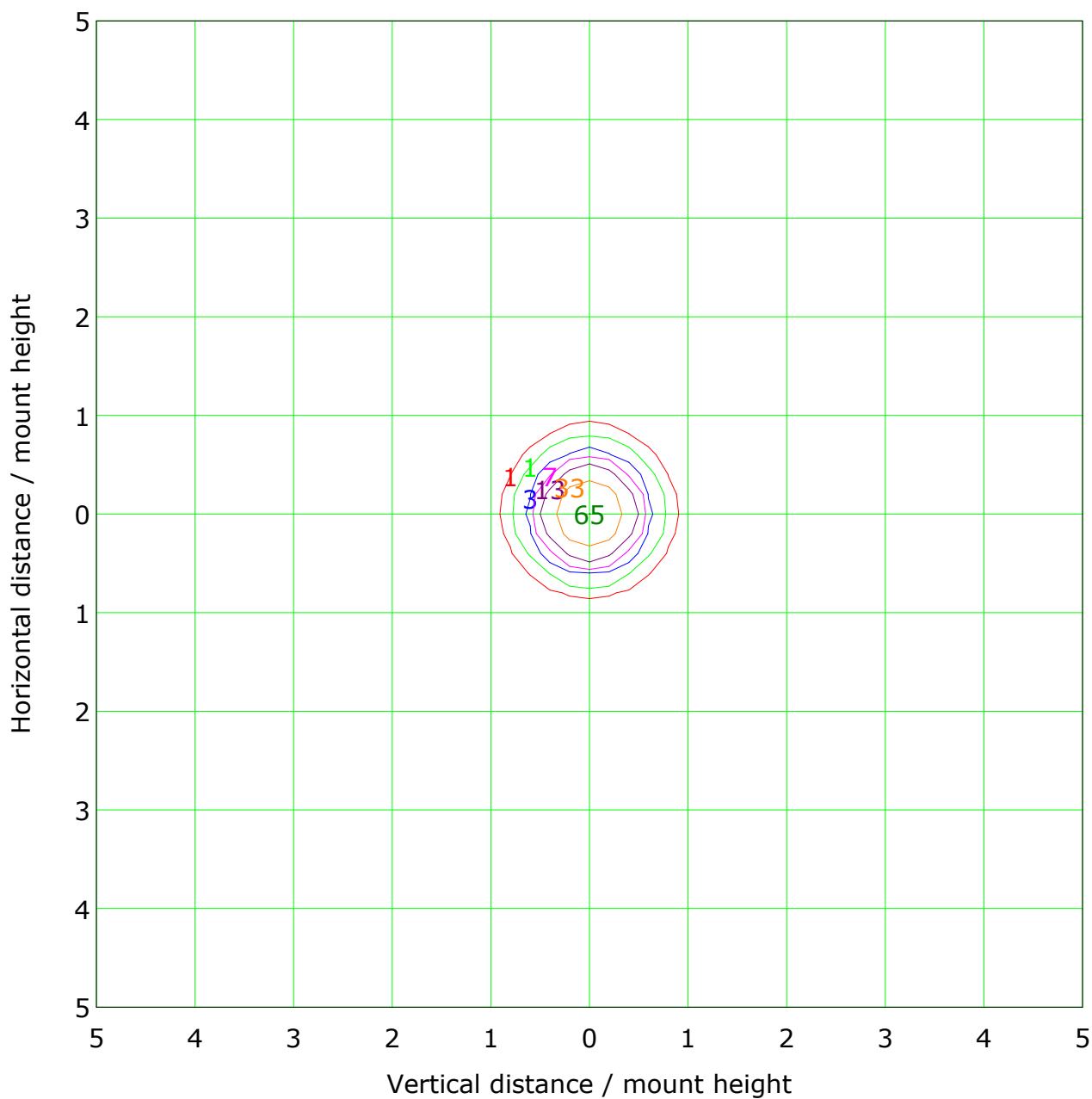
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 65.2 lx

(1%): 0.7 lx	(2%): 1.3 lx
(5%): 3.3 lx	(10%): 6.5 lx
(20%): 13.0 lx	(50%): 32.6 lx
(100%): 65.2 lx	

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

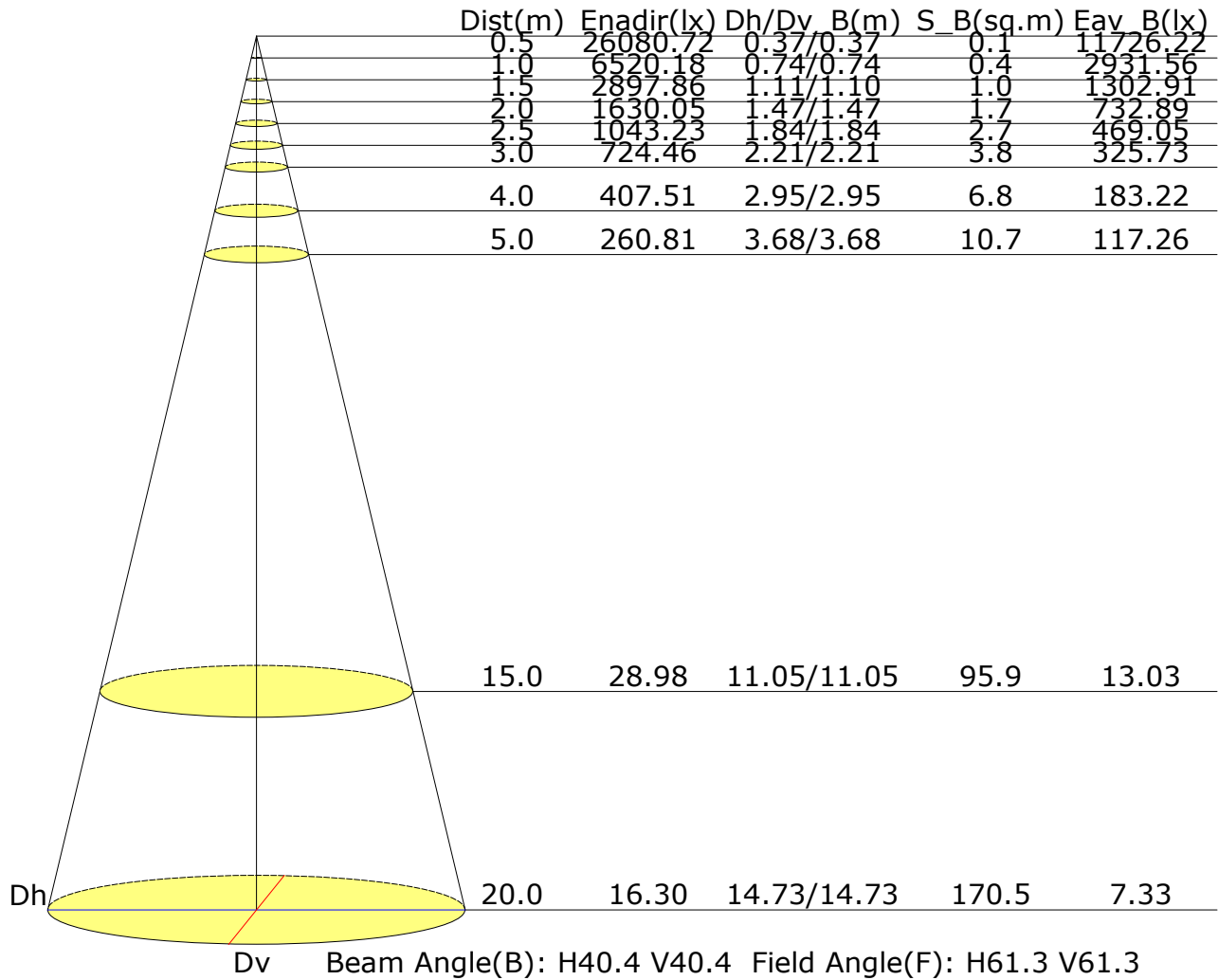
Test Device: CHL-6E

Distance: 2.905 m

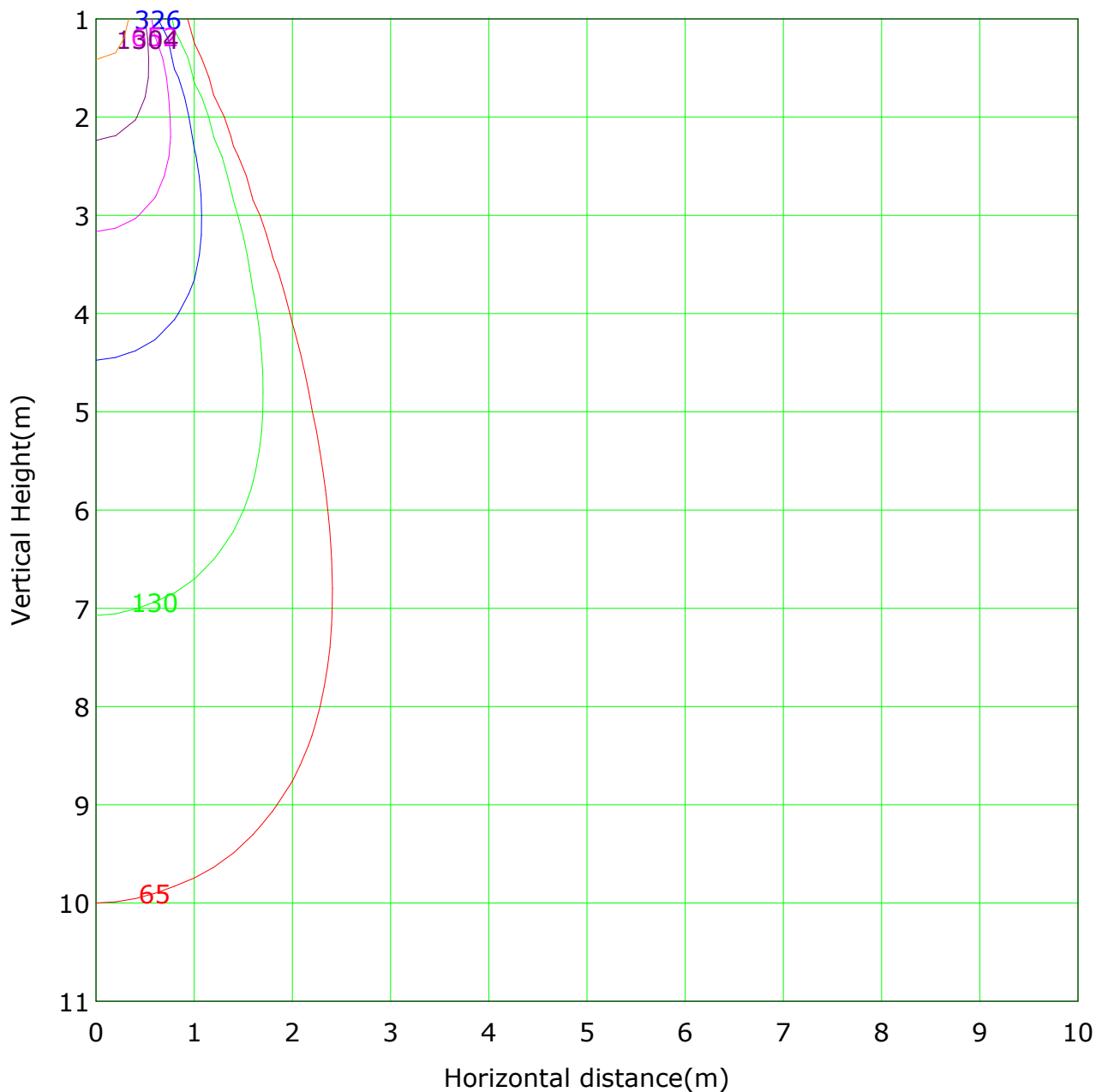
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



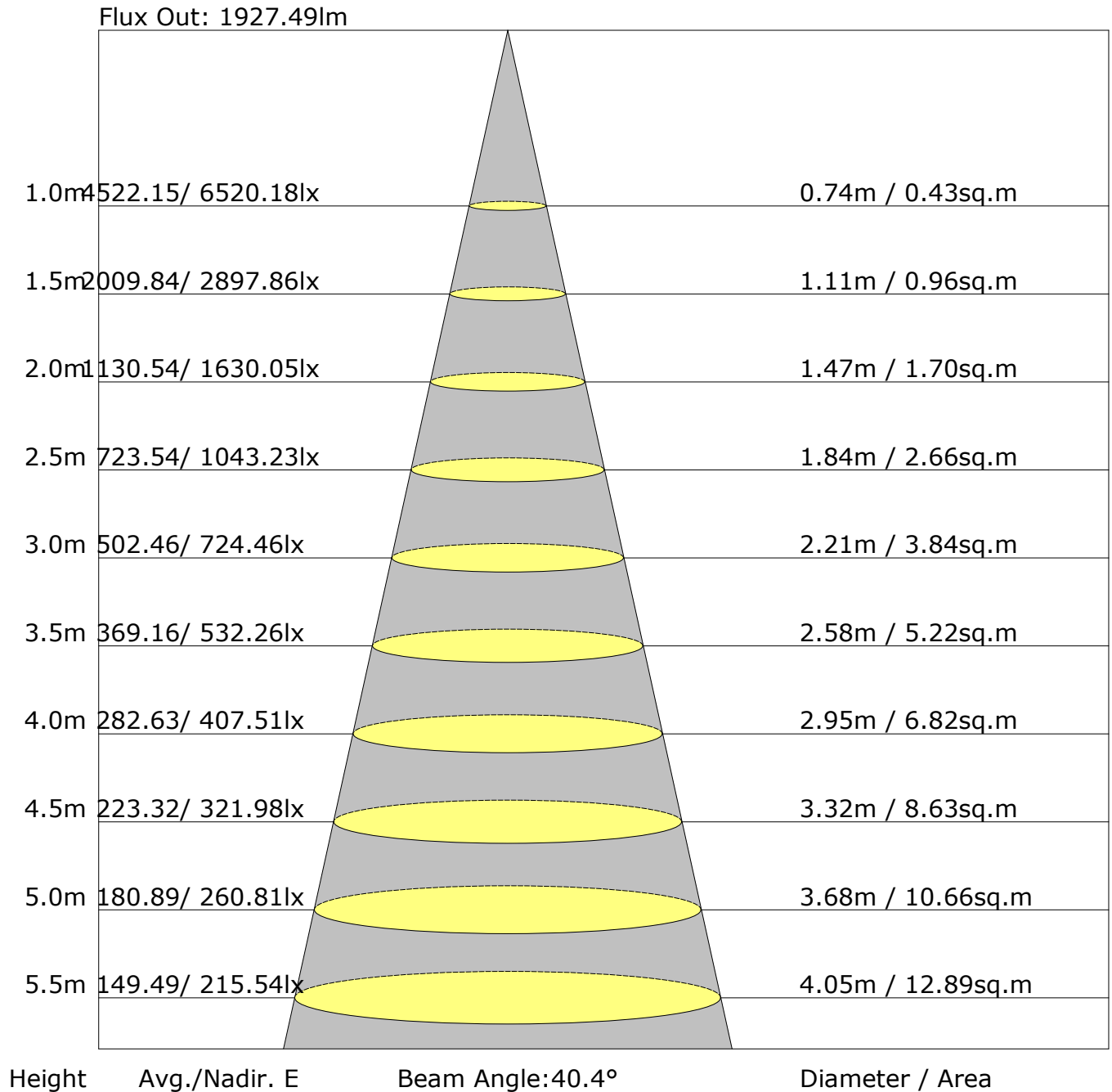
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 6520.2 lx
— (1%): 65.2 lx — (2%): 130.4 lx
— (5%): 326.0 lx — (10%): 652.0 lx
— (20%): 1304.0 lx — (50%): 3260.1 lx
— (100%): 6520.2 lx

C Plane (°): 0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°): 0.0-90.0: 1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

The Average Illuminance Effective Figure



C Plane (°): 0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°): 0.0-90.0: 1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	17.7	18.5	18.0	18.7	18.8	18.3	19.1	18.6	19.3	19.5
3H	17.7	18.3	18.0	18.6	18.8	18.3	18.9	18.6	19.2	19.4
4H	17.6	18.2	17.9	18.5	18.7	18.2	18.8	18.5	19.1	19.3
6H	17.5	18.1	17.9	18.4	18.7	18.1	18.7	18.4	19.0	19.3
8H	17.5	18.0	17.8	18.3	18.6	18.1	18.6	18.4	18.9	19.2
12H	17.4	18.0	17.8	18.3	18.6	18.0	18.6	18.4	18.9	19.2
X=4H Y=2H	17.7	18.3	18.0	18.6	18.9	18.3	18.9	18.6	19.2	19.4
3H	17.7	18.2	18.0	18.5	18.8	18.2	18.7	18.6	19.1	19.4
4H	17.6	18.0	17.9	18.4	18.7	18.1	18.6	18.5	18.9	19.3
6H	17.5	17.9	17.9	18.3	18.7	18.0	18.5	18.5	18.8	19.2
8H	17.4	17.8	17.9	18.2	18.6	18.0	18.4	18.4	18.8	19.2
12H	17.4	17.7	17.8	18.1	18.6	18.0	18.3	18.4	18.7	19.1
X=8H Y=4H	17.4	17.8	17.9	18.2	18.6	18.0	18.4	18.4	18.8	19.2
6H	17.3	17.7	17.8	18.1	18.5	17.9	18.2	18.4	18.6	19.1
8H	17.3	17.6	17.8	18.0	18.5	17.9	18.1	18.3	18.6	19.1
12H	17.3	17.5	17.7	18.0	18.5	17.8	18.1	18.3	18.5	19.0
X=12H Y=4H	17.4	17.7	17.8	18.1	18.6	18.0	18.3	18.4	18.7	19.1
6H	17.3	17.6	17.8	18.0	18.5	17.9	18.1	18.3	18.6	19.1
8H	17.3	17.5	17.7	18.0	18.5	17.8	18.1	18.3	18.5	19.0
Variations with the observer position at spacings:										
S=1.0H	+3.2/-3.0					+3.6/-3.4				
S=1.5H	+5.5/-5.3					+6.0/-5.6				
S=2.0H	+7.4/-11.8					+7.9/-13.1				

Calculate in accordance with CIE Pub.117. The table is revised with 3088lm ($8\log(F/F_0) = 3.9$).

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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1507	48.8
	FL (0°-30°)	1337	43.3
	FM (30°-60°)	163	5.3
	FH (60°-80°)	7	0.2
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1581	51.2
	BL (0°-30°)	1382	44.8
	BM (30°-60°)	191	6.2
	BH (60°-80°)	7	0.2
	BVH (80°-90°)	0	0.0
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U0 G0

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	6517.4	6.2	6.2	0.20	0.20
1.0-2.0	6503.0	18.7	24.9	0.60	0.81
2.0-3.0	6471.0	31.0	55.9	1.00	1.81
3.0-4.0	6426.1	43.0	98.9	1.39	3.20
4.0-5.0	6371.0	54.8	153.7	1.78	4.98
5.0-6.0	6306.7	66.3	220.0	2.15	7.12
6.0-7.0	6230.9	77.4	297.3	2.51	9.63
7.0-8.0	6136.8	87.8	385.2	2.84	12.47
8.0-9.0	6023.8	97.6	482.8	3.16	15.64
9.0-10.0	5892.8	106.7	589.5	3.45	19.09
10.0-11.0	5744.7	114.8	704.3	3.72	22.81
11.0-12.0	5582.1	122.0	826.3	3.95	26.76
12.0-13.0	5404.1	128.3	954.6	4.15	30.91
13.0-14.0	5202.6	133.2	1087.8	4.31	35.23
14.0-15.0	4975.8	136.6	1224.4	4.42	39.65
15.0-16.0	4724.4	138.5	1362.8	4.48	44.14
16.0-17.0	4449.5	138.6	1501.4	4.49	48.62
17.0-18.0	4153.6	137.0	1638.4	4.44	53.06
18.0-19.0	3835.9	133.5	1771.9	4.32	57.38
19.0-20.0	3502.3	128.2	1900.1	4.15	61.54
20.0-21.0	3162.8	121.5	2021.5	3.93	65.47
21.0-22.0	2824.4	113.5	2135.0	3.68	69.15
22.0-23.0	2492.3	104.6	2239.6	3.39	72.53
23.0-24.0	2177.7	95.2	2334.9	3.08	75.62
24.0-25.0	1887.7	85.8	2420.7	2.78	78.40
25.0-26.0	1624.4	76.7	2497.4	2.48	80.88
26.0-27.0	1387.1	67.9	2565.3	2.20	83.08
27.0-28.0	1169.8	59.2	2624.5	1.92	85.00
28.0-29.0	974.6	51.0	2675.5	1.65	86.65
29.0-30.0	807.8	43.6	2719.1	1.41	88.06
30.0-31.0	672.3	37.4	2756.5	1.21	89.27
31.0-32.0	563.8	32.3	2788.8	1.05	90.32
32.0-33.0	475.7	28.0	2816.9	0.91	91.23
33.0-34.0	403.4	24.4	2841.3	0.79	92.02
34.0-35.0	344.8	21.4	2862.7	0.69	92.71
35.0-36.0	297.0	18.9	2881.6	0.61	93.32

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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	257.7	16.8	2898.4	0.54	93.87
37.0-38.0	226.4	15.1	2913.5	0.49	94.36
38.0-39.0	200.8	13.7	2927.2	0.44	94.80
39.0-40.0	180.5	12.6	2939.8	0.41	95.21
40.0-41.0	164.3	11.7	2951.5	0.38	95.59
41.0-42.0	150.6	10.9	2962.5	0.35	95.94
42.0-43.0	139.0	10.3	2972.8	0.33	96.28
43.0-44.0	127.4	9.6	2982.4	0.31	96.59
44.0-45.0	117.3	9.0	2991.4	0.29	96.88
45.0-46.0	108.8	8.5	2999.9	0.28	97.16
46.0-47.0	100.8	8.0	3007.9	0.26	97.41
47.0-48.0	92.7	7.5	3015.4	0.24	97.66
48.0-49.0	85.0	7.0	3022.4	0.23	97.88
49.0-50.0	78.3	6.5	3028.9	0.21	98.09
50.0-51.0	71.6	6.1	3035.0	0.20	98.29
51.0-52.0	65.3	5.6	3040.6	0.18	98.47
52.0-53.0	59.7	5.2	3045.8	0.17	98.64
53.0-54.0	53.7	4.7	3050.5	0.15	98.79
54.0-55.0	49.1	4.4	3054.9	0.14	98.94
55.0-56.0	45.6	4.1	3059.0	0.13	99.07
56.0-57.0	41.4	3.8	3062.8	0.12	99.19
57.0-58.0	38.6	3.6	3066.4	0.12	99.31
58.0-59.0	35.8	3.3	3069.7	0.11	99.42
59.0-60.0	32.6	3.1	3072.8	0.10	99.52
60.0-61.0	29.5	2.8	3075.6	0.09	99.61
61.0-62.0	25.6	2.5	3078.1	0.08	99.69
62.0-63.0	22.8	2.2	3080.3	0.07	99.76
63.0-64.0	20.0	2.0	3082.3	0.06	99.82
64.0-65.0	16.2	1.6	3083.9	0.05	99.87
65.0-66.0	12.6	1.3	3085.2	0.04	99.92
66.0-67.0	9.8	1.0	3086.1	0.03	99.95
67.0-68.0	7.0	0.7	3086.9	0.02	99.97
68.0-69.0	4.6	0.5	3087.3	0.02	99.99
69.0-70.0	2.5	0.3	3087.6	0.01	99.99
70.0-71.0	1.1	0.1	3087.7	0.00	100.00
71.0-72.0	0.3	0.0	3087.7	0.00	100.00

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	6520.2	6520.2								
G1.0	6511.8	6517.4								
G2.0	6486.5	6496.3								
G3.0	6441.5	6459.8								
G4.0	6385.4	6417.7								
G5.0	6318.0	6362.9								
G6.0	6250.5	6295.5								
G7.0	6160.7	6216.9								
G8.0	6051.1	6118.5								
G9.0	5922.0	6003.4								
G10.0	5775.9	5870.0								
G11.0	5611.6	5721.1								
G12.0	5431.9	5563.9								
G13.0	5238.0	5382.7								
G14.0	5014.8	5174.9								
G15.0	4770.4	4943.1								
G16.0	4499.4	4684.8								
G17.0	4205.9	4408.1								
G18.0	3895.5	4104.8								
G19.0	3565.5	3777.6								
G20.0	3224.3	3441.9								
G21.0	2876.0	3109.1								
G22.0	2530.6	2781.9								
G23.0	2194.9	2461.7								
G24.0	1884.6	2169.6								
G25.0	1603.7	1893.0								
G26.0	1355.2	1645.8								
G27.0	1130.5	1416.9								
G28.0	921.2	1210.5								
G29.0	742.9	1023.7								
G30.0	602.5	862.2								
G31.0	497.1	727.4								
G32.0	414.3	616.5								
G33.0	349.7	522.4								
G34.0	297.7	443.8								
G35.0	255.6	382.0								
G36.0	224.7	325.8								

C Plane (°):0.0-180.0: 180.0

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Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	195.2	285.1								
G38.0	175.5	250.0								
G39.0	157.3	220.5								
G40.0	146.1	198.0								
G41.0	133.4	179.8								
G42.0	122.2	167.1								
G43.0	115.2	151.7								
G44.0	102.5	140.4								
G45.0	96.9	129.2								
G46.0	89.9	119.4								
G47.0	85.7	108.1								
G48.0	78.6	98.3								
G49.0	73.0	89.9								
G50.0	67.4	82.8								
G51.0	61.8	74.4								
G52.0	57.6	67.4								
G53.0	53.4	60.4								
G54.0	47.8	53.4								
G55.0	43.5	52.0								
G56.0	42.1	44.9								
G57.0	37.9	40.7								
G58.0	36.5	39.3								
G59.0	33.7	33.7								
G60.0	29.5	33.7								
G61.0	25.3	29.5								
G62.0	22.5	25.3								
G63.0	21.1	22.5								
G64.0	18.3	18.3								
G65.0	14.0	14.0								
G66.0	11.2	11.2								
G67.0	9.8	7.0								
G68.0	7.0	4.2								
G69.0	4.2	2.8								
G70.0	2.8	0.0								
G71.0	1.4	0.0								
G72.0	0.0	0.0								
G73.0	0.0	0.0								

C Plane (°):0.0-180.0: 180.0

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Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Unit: cd

[illegible]

Inspector: